

Department of the Army
United States Military Academy
West Point, New York 10996

West Point Supplement 3 to AR 200-1

Environmental Quality

INTEGRATED SOLID WASTE MANAGEMENT

IMNE-MIL-PWE

FOR THE SUPERINTENDENT:

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Proponent: The Environmental Management Division of the Directorate of Public Works.

Summary: This regulation establishes procedures and assigns responsibilities for the installation of the Solid Waste Management Program (SWMP) and to develop and execute a cost-effective Qualified Recycling Program (QRP) at West Point.

Applicability: All assigned and tenant units at West Point.

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CHAPTER 1

Section 1 Applicable Regulations and References

1-1 Federal Law

a. Resource Conservation and Recovery Act (RCRA), Public Law 94-580, 21 October 1976. This law established standards and guidelines for the management of hazardous and non-hazardous solid wastes. The act introduced and encouraged the practices of waste minimization through source reduction, Affirmative Procurement (use of recovered materials), recycling and conversion of waste to energy. The RCRA Section 6002 specifically requires the federal government to promote standards and practices for the procurement of recycled and recovered materials. The act was codified in Title 40, Code of Federal Regulations (CFR) Parts 240-272. Pertinent sections are listed below:

- (1) Part 243: Guidelines for the Storage and Collection of Residential, Commercial and Institutional Solid Waste
 - (2) Part 246: Source Separation for Materials Recovery Guidelines
 - (3) Part 247: Guidelines for Procurement of Products that Contain Recycled Materials
 - (4) Part 257: Criteria for Classification of Solid Waste Disposal Facilities and Practices
- b. Pollution Prevention Act of 1990, Public Law 101-508, 5 November 1990
- c. Federal Facilities Compliance Act 6 October 1992
- d. Federal Property and Administrative Services Act of 1949, Public Law 152
- e. 10 U. S. Code 2577, "Disposal of Recyclable Materials"
- f. 5 U.S. Code 552, the Freedom of Information Act
- g. 5 U.S. Code 552A, the Privacy Act of 1974
- h. Military Construction Codification Act of 1982, Public Law 97-214

1-2 State and Local Law.

- a. Title 6 NYCRR, Part 360 - New York State Solid Waste Management Facilities,
- b. Orange County Local Law #2 of 1989 and Revisions

1-3 Executive Orders (EOs)

- a. EO 13101, Greening the Government Through Waste Prevention, Recycling, and Federal Acquisition, 14 September 1998
- b. EO 12856, Federal Compliance with Right –to –Know Laws and Pollution Prevention Requirements, August 1993
- c. EO 12780 Federal Agency Recycling and Council on Federal Recycling and Procurement Policy, October 1991

1-4 Army Regulations and Policies

- a. AR 420-49 Facilities Engineering Utility Services, 28 April 1997
- b. PAM 420-47 Solid Waste Management, June 1978
- c. AR 200-1 Environmental Protection and Enhancement
- d. AR 25-55, the Department of the Army Freedom of Information Act Program
- e. AR 25-400-2, the Modern Army Recordkeeping System (MARKS)
- f. AR 340-21, the Army Privacy Program
- g. DODI 4715.4 "Pollution Prevention", June 18, 1996
- h. DOD 7000.14.R, "DoD Financial Management Regulation"
- i. Combined Services Guide for Qualified Recycling Programs, 15 September 1997.
- j. IMA, SFIM-NE-PW-ER (200), Memorandum, 17 September 2003, Qualified Recycling Program Implementing Guidance.

- k. Assistant Chief of Staff for Installation Management (DAIM-FDF-E) Memorandum, 22 June 98, subject: Fielding of Solid Waste Annual Report (SWAR) Software
- l. Assistant Chief of Staff for Installation Management (DAIM-FD) Memorandum, 11 January 1999, subject: Implementation of Solid Waste Annual Report (SWAR) – Update
- m. Assistant Chief of Staff for Installation Management (DAIM-FD) Memorandum, 31 August 2001, subject: Management of Construction and Demolition (C&D) Wastes.

1-5 Department of Defense (DOD) Requirements

- a. DOD Instruction (DODI) 4715.4, Pollution Prevention, 18 June 1996
- b. DOD Instruction (DODI) 4715.4 Para 6.2.3.3 Qualified Recycling Program (QRP) guidance
- c. Office of the Under Secretary of Defense Memorandum, 13 May 1998 subject: New DOD Pollution Prevention Measure of Merit
- d. Office of the Under Secretary of Defense Memorandum, 15 May 1998 subject: Recycling of Firing-Range Scrap Consisting of Expended Brass and Mixed Metals Gleaned from Firing-Range Clearance through Qualified Recycling Programs.

1-6 West Point Regulations and Policies

- a. USMA 200-3 Hazardous Waste Management Plan
- b. Affirmative Procurement Contacting Guide
- c. Installation Spill Contingency Plan

1-7 Websites.

The Recycling Center website is on the West Point site under DPW EMD Activities – Recycle www.usma.edu/dhpw/emd/recycling/index.asp .

Section 2

1-8 Purpose: This regulation prescribes responsibilities and standards for the efficient and economical removal of solid waste in an environmentally and legally acceptable manner. It establishes procedures and assigns responsibilities to comply with DOD Instruction 4715.4, “Pollution Prevention” and to develop and execute a cost-effective Qualified Recycling Program (QRP) at West Point.

1-9 Applicability: This regulation applies to all activities, host and tenant, on West Point. The Integrated Solid Waste Management Plan encompasses all of the West Point Installation.

1-10 Authority: AR 200-1 requires Army installations to “Establish local procedures and responsibilities for the execution of the waste management program which emphasizes pollution prevention, chain of command, and individual responsibility to achieve compliance”.

1-11 Program Objectives

a. The overall objective is to maintain a cleaner and safer environment through effective solid waste management, recycling and pollution prevention. West Point’s primary solid waste management goal is to reduce the overall solid waste generation rate and thus reduce the solid waste and optimize overall solid waste management. West Point plans to improve its existing recycling and source reduction programs in order to meet this goal. The main objectives of these programs are: 1. Reduction of waste at the source before the processing of materials (source reduction) and 2. Reduction of the amount of material entering the waste stream (recycling).

b. West Point’s Recycling Center and Transfer is to reduce Municipal Solid Waste (MSW) going to the contracted landfill. West Point will increase it’s diversion rate annually to meet the Measure of Merit (40%) for recycling.

c. The QRP shall serve all tenant organizations occupying space on the installation, including leased space. The QRP will assist the Installation in increasing its diversion rate of non-hazardous solid waste.

1-12 Background Information

a. West Point is located on the west bank of the Hudson River approximately 45 miles from New York City. The Academy covers an area in excess of 16,000 acres, 2,000 of which is a historic district. The academy is divided into two main areas. The main post-area contains the majority of the academic, residential and support facilities and is bounded by Route 9W to the west, 218 to the north, the Hudson River to the east and the Village of Highland Falls to the south. The West Point Reservation is the extensive largely undeveloped area of West Point to the west of 9W which includes training ranges, an impact area, summer training camps and a number of recreational lakes and reservoirs.

b. West Point lies mainly within the Towns of Highland and Cornwall. The West Point Transfer Station and Recycling Center is located off highway 293. The station is a government owned contractor operated facility, which provides service to West Point and the local communities of Highland Falls and Ft. Montgomery. The Transfer Station transports Municipal Solid Waste (MSW) to the Alliance Landfill in Taylor, PA. The Recycling Center has contracts with several recycling vendors in the Newburgh, NY area (15 miles north).

c. By executing this SWMP West Point will reduce the amount of waste requiring off-post disposal, thus aiding the overall community in better managing and reducing their waste. The recycling program is intended to remove selected materials from the waste stream for resource recovery. The source reduction program is intended to minimize the amount of material entering the waste stream. Improved operations, inventory management, redistribution and reuse are the primary source reduction techniques to be utilized.

d. Recycling is a federally mandated program and costs associated with recycling outside the QRP are a function of the Transfer Station operation. Recycling for profit is a function of the QRP and as such, is a stand alone business that does not share in the cost of recycling outside the QRP. Most DoD waste results from disposal of surplus items that were originally purchased with appropriated funds. By law, the proceeds resulting from the sale of surplus materials purchased with appropriated funds must be returned to the U. S. Treasury, unless a QRP is established. Under a QRP the installation keeps the proceeds from the sale of recyclable materials to use for covering the cost of operating the program, with any balance remaining available for environmental, safety, and health activities, or for morale, welfare, and recreation activities.

1-13 Population

a. Military Personnel: The Corp of Cadets has an average size of just over 4,000. The actual size is cyclical throughout the year with an upper limit of 4,400 cadets. The number of permanent military personnel assigned to West Point is approximately 1,600. This population is projected to remain constant for the next several years.

b. Civilian Personnel: There are approximately 3,700 civil service employees and 735 employees employed by contractors.

c. Dependents: There are approximately 2,700 military dependents and 150 civilian dependents living on post. The population is expected to remain constant.

Section 3 Responsibilities

1-14 Garrison Commander (GC)

(a) SWMP

- (1) Establish an organizational structure to plan, execute, and monitor the solid waste program.
- (2) Program, budget and defend resource requirements to manage the solid waste program, including funds for equipment, studies, operational costs, maintenance costs, treatment, storage or disposal, waste minimization and personnel training.
- (3) Ensure sufficient funding levels to comply with the Resource Conservation and Recovery Act requirements and support pollution prevention initiatives.
- (4) Ensure that all required training is approved, resourced, accomplished and documented.

(b) QRP

- (1) Through the Qualified Recycling Program Committee, ensure that the proceeds from the recycling program are used in accordance with Public Law 152 and DOD Instruction 7310.1.
- (2) Have overall responsibility for the establishment and operation of a QRP.
- (3) Make QRP services available to all tenant organization and tenant contractors.
- (4) Structure the QRP for a variety of recyclables with emphasis on total waste stream reduction.

1-15 Director of Public Works (DPW)

(a) SWMP

- (1) Serve as the Garrison Commander's expert representative for the management of solid wastes.
- (2) Advise all waste generating activities of the state, federal and army requirements for managing solid wastes including requirements for permit, reporting and recordkeeping.
- (3) Monitor the installation compliance with local, state, federal and army solid waste management requirements. Recommend changes in policies or procedures to improve program management.
- (4) Advise the Commander in coordination with waste generating activities on the most cost-effective and efficient means of waste storage, treatment and disposal.
- (5) Establish, monitor, and execute programs in waste management including waste minimization, resource recovery and recycling.
- (6) Ensure regular, systematic collection and disposal of solid wastes to provide efficient and cost-effective service per the requirements of Army regulations.
- (7) Periodically review number and location of pickup stations, truck routes, type of equipment, scheduling, supervision and use of personnel to effectively manage solid wastes.
- (8) Monitor solid waste activities that are carried out by contract. Ensure contract requirements are met.
- (9) Provide a Recycling Center facility for operation of the QRP.

1-16 Chief, Business Operations Integration Division (BOID) will:

- (a) Implement a financial control system to provide reasonable assurance that the QRP meets its goals and properly accounts for funds.
- (b) Implement accounting and reconciliation and analysis procedures that allow for periodic reconciliation of sales and financial records.

1-17 Chief, Environment Management Division (C, EMD)

(a) SWMP

(1) Serve as the installation point of contact concerning solid waste management and recycling.

(2) Determine the most cost-effective and efficient means of waste treatment, storage or disposal, including the use of: a regional facility on non-Army owned property for resource recovery, treatment or disposal and industrial wastewater treatment plants, where applicable.

(3) Advise the Commander in coordination with waste generating activities on the most cost-effective and efficient means of waste storage, treatment and disposal, to include the siting of new waste management facilities and the need to modify existing facilities.

(4) Act as primary execution agent for solid waste management responsibilities.

(b) QRP

(1) Formally establish the installation Qualifying Recycling Program (QRP) and designate a person or activity to be the QRP manager. Also, establish and oversee a materials accounting procedure to track the materials processed/sold and a financial accounting system for the receipts and disbursements of funds.

(2) Supervise the QRP Manager

(3) Provide support to the QRP Manager

(4) Brief West Point Environmental Quality Control Committee (EQCC) annually and as issues/concern that impact the recycling program arise.

(5) Develop goals and objectives necessary to ensure that the QRP is operated on an economical break-even basis.

(6) Approve expenditures for the QRP.

(7) Provide self-help materials and facility support to the QRP on a non-reimbursable basis within resource constraints and subject to good engineering practices.

(8) Provide preventive maintenance and repair of equipment used for recycling materials on a reimbursable basis from the QRP Fund.

(9) Provide professional training to QRP Manager and employees on the operation of recycling equipment.

(10) Implement a management control system to provide reasonable assurance that the QRP meets its goals and properly account for funds.

(11) Ensure, where cost effective, that all installation contracts include provisions that obligate the contractor to participate and support the QRP requirements.

(12) Ensure that the QRP Manager maintains all QRP sales documentation as required by Combined Services Guide for Qualified Recycling Programs, 15 September 1997 and DOD 7000.14.R, DOD Financial Management Regulation.

1-18 Chief, Environment Engineering Branch (C, EEB)

(a) Periodically review all applicable state, federal and army requirements concerning solid wastes.

(b) Maintain liaison and coordination with State and Federal solid waste regulators.

(c) Monitor installation compliance including tenant activities and subinstallations with local, state, federal and army solid waste management requirements. Recommend changes in policies or procedures to improve program management to the Commander.

(d) Provide solid waste management planning and technical support to C, EMD.

(e) Provide assistance in investigation of illegal dumping on the Installation.

1-19 Chief, Solid Waste Management Branch (C, SWMB)/ Solid Waste Manager

(a) Conduct operational activities of the Solid Waste Management Plan.

(b) Follow all guidance and installation standard operating procedures (SOPs) concerning safety, health and environmental aspects of solid waste management.

(c) Complete training required to perform duties.

- (d) Maintain records of solid waste/recycling activities where applicable.

1-20 Qualified Recycling Program Manager

- (a) Responsible for the daily operation of recycling program
- (b) Establish a cost-effective QRP business in coordination with the Chief, EMD.
- (c) Ensure the QRP operation complies with all applicable public laws, Executive Orders, DoD and army regulations, as well as state and local directives.
- (d) Develop, establish, and maintain the operation of an effective QRP.
- (e) Establish and maintain Directorate-level attention by quarterly reporting QRP status to the EQCC
- (f) Manage the overall Qualified Recycling Center to ensure the continuation and expansion of the QRP, which will guarantee West Point receives benefits from the accumulation and sale of all economically profitable recyclable materials that normally would be discarded.
- (g) Perform as Recorder at the Quarterly QRP Committee meeting. Publish minutes approximately three days after the meeting and make distribution to all committee members.
- (h) Prepare and submit an Annual Operating Budget (AOB) for review and approval by the West Point Qualified Recycling Committee and the Director of DPW.
- (i) Advise generators of recyclable materials on segregation, identification, and turn-in of recyclable materials (education).
- (j) Actively pursue participation in partnership programs with other military services, other DoD activities, federal agencies, local municipalities and the West Point community.
- (k) Report all matters relating to fraud or criminal conduct to immediate supervisor or Internal Review Office, or criminal investigation personnel.
- (l) Perform all recycling contract administration actions and perform as Contract Officer Representative (COR) for QRP contracts, as appointed.
- (m) Provide recycle sales information to the EMD (on a quarterly basis) for input into the Solid Waste Annual Report (SWAR) for the Department of the Army, Assistant Chief of Staff for Installation Management including, but not limited to, quantity and type of materials recycled, revenues generated, and expenses. Provide a copy of the report to the QRP Committee.
- (n) Maintain all QRP sales documentation as required by Combined Services Guide for Qualified Recycling Programs, 15 September 1997 and DOD 7000.14.R, DoD Financial Management Regulation.
- (o) Determine what material the QRP should recycle based on whether or not there is a market for those materials.
- (p) Identify markets including local, regional, national, or even international buyers. The more markets that are identified, the greater the chance that the QRP will be a success.
- (q) Ensure compliance with United State's trade security control policies and followed in accordance with DoD Instruction 4160.27 and DoD 4160.21-M prior to directly selling firing range expended brass or mixed metals gleaned from firing range cleanup that do not require demilitarization and that are Munitions List Items (MLI) or Strategic List Item (SLI).
- (r) Implement procedures for reuse screening to consider reuse programs in accordance with E.O. 12873 prior to selling directly other recycling programs materials.

1-21 Qualified Recycling Program Committee will be chaired by the DPW's Chief, Environmental Management Division (EMD) and will:

- (a) Oversee the operation of the QRP, serve as the Board of Directors, and advise the Installation Commander and the Environmental Quality Control Committee (EQCC) on program decisions, and financial status impacting the operation of the QRP.
- (b) Review and approve the QRP Business Plan.
- (c) Review and approve QRP Annual Operating Budget (AOB), Capital Purchase and Minor Construction (CPMC) Budget and Five-Year Plan.

(d) Meet at least quarterly or more frequently as needed to review and approve proposals to add/delete cost-effective (winner/losers) to the QRP. To initiate the QRP, the following items have been identified as cost-effective (winners):

- Paper Products
- Brass (spent ammunition residue)
- Cardboard
- Scrap metal
- Pallets

(e) Review the financial operations of the QRP on a quarterly basis.

1-22 Directorate of Morale, Welfare and Recreation, Chief, Services Division will:

- (a) Perform duties as member of the QRP Committee.
- (b) Provide recommendations to the QRP committee on use of QPR funds.

1-23 Directorate of Contracting will:

- (a) Ensure that all installation contracts include a provision that obligates the contractor to participate and support the QRP requirements.
- (b) Modify as requested all existing contracts to incorporate QRP recycling provisions.
- (c) Provide appropriated contracting support as requested to support the requirements of the QRP.

1-24 Installation Safety Officer

- (a) Monitor the storage, packing, transportation, treatment and disposal of solid wastes.
- (b) Oversee personnel training requirements to ensure compliance with, state, federal and army safety standards.

1-25 Range Control

- (a) Inspect all ranges after use and return them to pre-training condition with respect to solid waste.
- (b) Ensure the USMA Regulation 385-11 is followed by all soldiers using the training areas.

1-26 Game Warden

- (a) Monitor all ranges for illegal dumping of solid waste.
- (b) Inform EMD of any illegal dumping

1-27 Director of Logistics (DOL)

- (a) SWMP
 - (1) Advise procuring activities on procedures for integrating waste reduction and recycling program goals into installation procurement programs to achieve federally mandated and army endorsed goals and objectives.
 - (2) Determine which property book items are reused, resold or recycled.
 - (3) Advise generating activities on the required turn-in procedures, including packaging, labeling and transporting of materials to facilitate sales/recycling.
 - (4) Assume accountability for materials properly turned in for disposal, resale or recycling
 - (5) Actively support the Directorate of Public Works (DPW) in measuring progress to meet federal and army waste reduction goals and requirements.
 - (6) Communicate regularly with Defense Logistics Agency (DLA) activity serving the installation to maintain current information on markets for excess or unserviceable materials and recyclable materials.
- (b) QRP

(1) Provide the QRP Manager with a copy of turn-in documents for recyclable materials turn-in through DRMO.

(2) Provide vehicles as required to support the West Point Recycling Program on an available basis (non-reimbursable) until final purchases can be made.

(3) Inspect and classify government property, i.e., verify, identify and determine disposal condition code; and process for disposal.

(4) Manage spent ammunition brass.

1-28 Directorate of Information Management will:

(a) Update procedures and provide written guidance for recycling paper which may contain unclassified sensitive material, For Official Use Only (FOUO) material, or data regulated by the Privacy Act. This includes manuals, bulletins, regulations, reference books, and all other instructional materials to include those manuals with distribution restrictions.

(b) Provide shredding capability for West Point personnel.

1-29 Resource Management Office will provide central accounting support to the QRP.

1-30 Automation Equipment Users will ensure that equipment items to be recycled are properly sanitized to ensure that no classified information is compromised. Coordinate with activity Information Officer as necessary to eliminate data from computer systems prior to turn-in.

1-31 Defense Reutilization and Marketing Office (DRMO)

(a) Serve as the local representative of the Defense Logistics Agency.

(b) Periodically conduct sales for the West Point QRP.

(c) Maintain records concerning types and quantities of materials turned in and proceeds for various resale/recycling activities.

1-32 Contractors

(a) All collection and transporting of solid waste is done by contract at West Point.

(1) Contractor is responsible for the collection of the solid waste and the transporting of this waste to the Transfer Station

(2) Transfer Station contractor is responsible with the transfer of solid waste to the compactor and to the final disposal site, a state approved landfill.

(b) The collection of recyclables is accomplished through contracts.

(1) Contractor is responsible for picking up the residential recycling goods.

(2) Contractor is responsible for picking up commercial recycling goods from collection points specified in the contract.

(c) Construction contractors are responsible for submitting and maintaining a Construction and Demolition Waste Management Plan (See Chapter 5-14)

(d) Contractors must provide their own disposal containers. The containers used in the Central Area and in all of the commercial areas are supplied by West Point for West Point use only.

1-33 Army Corps of Engineer will ensure all construction contracts conform to this Solid Waste Management Plan.

1.34 Other West Point Activities and Tenants will comply with this Solid Waste Management Plan

CHAPTER 2 Generation of Solid Waste and Recyclables

2-1 Waste Categories

a. Residential Waste consists of paper, metal, plastics, food waste, bulky items and yard waste. Aluminum, glass and plastic containers along with newspapers are collected in separate bins for

recycling. The waste is generated from approximately 1,100 housing units, barracks for the 4,000 cadets and 500 permanently stationed soldiers. Camps Natural Bridge and Buckner, both operational during the summer months for cadet summer training, house approximately 1,000 troops to support that mission.

b. Commercial Waste consists of paper, food wastes, clothing and textiles, and packing materials. Furniture, in accordance with DOD's procurement policy, is transported to DRMO for reutilization or sale as appropriate. Cardboard, newsprint, colored paper and white office paper are collected separately, as well as aluminum, glass and plastic containers, for recycling generated by a support staff of approximately 4,500 employees occupying approximately 50 administrative buildings.

c. Industrial Waste includes solvents, grease, wood and food wastes. Waste oil, tires and scrap metal are all collected separately for recycling. Several industrial activities, power plant, motorpool, post office, print shop, auto/craft shop, dry cleaning laundry plant, public works shops and medical facility located within West Point's boundaries, contribute to this waste category.

d. Construction and Demolition (C&D) Waste is comprised of lumber, glass, concrete, brick, plaster, rock, etc. The handling of this waste is covered in the contracts that are set up for the specific job where the waste is being generated. The contractor has to develop a Construction and Demolition Waste Management Plan that complies with the procedures in Construction and Demolition Waste Management Plan Guidance (See Section 5-14).

e. Special Waste includes sludge, grit, screenings and other non-reductive waste. The category also includes the Farm Waste from Morgan Farm.

f. Range Waste consists mainly of food wastes, packaging from the soldiers' MREs (meals ready to eat), and paper. Inert Certified Range Residue (brass and steel) is recycled by the QRP.

g. Hazardous Waste is handled according to USMA 200-3, Installation Hazardous Waste Management Plan.

h. Waste Quantities: Table 1 shows the history of Solid Waste Management. (1994 to present)

2-2 Source Reduction. Source Reduction differs from recycling in that it focuses on reducing the waste stream at the source; to include procurement policies and the way products are used.

2-3 Purchasing Programs

a. Environmentally Preferable Purchasing is the procurement of materials that use the least amount of packaging. The packaging used should be recyclable or reusable. The material purchased should also comply with the recyclable or reusable criteria.

b. Affirmative Procurement Contacting Guide establishes procurement programs specifying the use of recovered materials to the maximum extent possible. Designated items include paper and paper products, cement and concrete, carpet, floor tiles, fiberboard, plastic desktop accessories, binders, toner cartridges, trash bags, hydraulic mulch, and pallets. A complete list of designated items is shown in Appendix 1.

2-4 The Installation Pollution Prevention Plan suggests projects to include material substitution, process changes or other methods to reduce the toxicity or quantity of wastes generated.

2-5 Reuse is the establishment of a material exchange for the redistribution of items, such as the reuse of packing material, to include Styrofoam peanuts, bubble wrap, and cardboard boxes in good condition.

2-6 Management Practices could include: eliminate stockpiling materials; order only what will be used, using e-mail in place of written memos whenever possible, saving e-mail messages to files rather than printing out, sending mail in reusable "Shotgun" envelopes, reusing file folders (put stick-on labels over previous folder labels), using routing slips in place of multiple copies, using old documents for scratch paper, using word processing features to condense pages, using less paper, using "print view" features to reduce printing mistakes and paper waste, making double-sided copies, returning toner cartridges for remanufacturing, providing proper maintenance for copiers and printers, saving binders for reuse and using reusable materials rather than disposable materials (i.e. coffee mugs instead of Styrofoam cups).

CHAPTER 3

3-1. Installation Recycling Program

a. West Point central recycling center receives and packages recyclable material generated on-post. The recycling center is owned and operated by DPW's SWMB under the QRP. The Recycling Center consists of the building, a paper shredder, two vertical balers, a horizontal baler, deformer, a metals precrusher and a range residue deformer. West Point personnel operate all assigned equipment. All marketable materials are stored in labeled cargo containers awaiting sale. The Transfer Station contractor collects recyclables from labeled containers at the curbside, drop-off centers and operating areas.

b. The Recycling Center bales, stores and markets these materials with revenues being returned to support the QRP. The QRP recycles cardboard, white and colored paper, magazines, books and newsprint, which are revenue generating commodities. Guidance issued by DOD in January 1997 states that recyclable goods originally purchased with appropriated funds no longer have to be sold through DRMO. Installations can now sell directly to local vendors. This guidance enables West Point to obtain the best price for recyclable materials.

c. The QRP recycles range residue (brass and steel cartridges). West Point has purchased a deformer to meet the requirements to sell the range residue.

d. Under the recycling program, the Transfer Station sends scrap metal, commingle (glass, cans and plastic), and construction and demolition (C&D) materials to vendors that recycle the materials. Morgan Farm's organic waste is trucked to Ulster County Correctional Facility to be composted and used at that facility. These materials are not revenue generators but contribute to the recycling effort and cost saving.

e. Recycling Committee Organizational Structure: The QRP Committee will consist of personnel in the following positions or members from the following organizations:

- (1) DPW, Chief, Environmental Management Division
- (2) DPW, Chief, Solid Waste Management Branch
- (3) DMWR, Chief, Services Division
- (4) Deputy Director of Information Management
- (5) ACA, Deputy Director of Contracting
- (6) Deputy Director of Logistics
- (7) Deputy Director of Resource Management Office
- (8) Safety Officer
- (9) Auditor, Internal Review and Audit Compliance Office.

f. Distribution of Recycling Proceeds. The proceeds from the sale of recyclable materials will be dispersed according to the following hierarchy:

- (1) Proceeds shall first be used to cover the costs directly attributed to the operation of the QRP, including, but not limited to, manpower, facilities, equipment, overhead, and other capital investments.
- (2) After these costs are recovered, up to 50 percent of the remaining proceeds may be used for pollution abatement, pollution prevention, energy/water conservation, composting and alternative-fueled vehicle infrastructure support and vehicle conversion, or occupational safety and health projects, with first consideration given to projects included in the West Point Pollution Prevention Plan.
- (3) In accordance with law, any proceeds remaining from the sale of direct recyclable materials or other qualified recyclable materials may be transferred to Morale, Welfare and Recreation activities and facilities.

g. Recycling of Paper Containing Unclassified Sensitive, FOUO, or Privacy Act Material.

(1) Definitions:

(a) Unclassified sensitive material is that which is used on a need-to-know basis. This includes official documents, manuals (including those with distribution restrictions), bulletins, regulations, reference books, and all other instructional materials whose information is of a sensitive nature and should not be made available to the general public.

(b) For Official Use Only (FOUO), IAW AR 25-55, the Department of the Army Freedom of Information Act (FOIA) Program, is information that has not been given a security classification but which may be withheld from the public for one or more of the reasons cited in FOIA exemptions 2 through 9. This is similar to unclassified sensitive material – its availability is on a need-to-know-basis.

(c) Privacy Act material is that which contains personal information on individuals and is governed by U.S.C. 552A, The Privacy Act of 1974, and AR 340-21, the Army Privacy Program.

(2) Control:

(a) Any printed material categorized above may be recycled provided safeguards are used to prevent restricted information from being easily gathered by unauthorized individuals.

(b) Disposition and/or destruction of official government documents within Department of the Army are regulated by AR 25-400-2, the Modern Army Recording System (MARKS). The disposition instructions designate those files whose final disposition is destruction.

(c) The West Point Records Management Officer will provide guidance on MARKS disposition and/or destruction.

(d) The West Point Privacy Act Officer will provide guidance on the destruction and recycling of all sensitive, FOUO, and Privacy Act material.

(3) Destruction Guidelines: Disposition of controlled material is based on the sensitivity of the information and volume of documents.

(a) Small quantities may be destroyed by tearing each copy into pieces to preclude reconstructing.

(b) Shredding is used for larger volumes and /or more thorough destruction of more sensitive documents/publications (see below).

(c) Privacy material destruction is normally by shredding.

(d) Medical, legal, financial and other such information on individuals is highly sensitive and should be closely controlled at all times.

(e) Common privacy material includes Social Security Numbers (when related to individual names), and home addresses and phone numbers. In many cases these may not be considered highly sensitive.

(4) Optional destruction for sensitive, FOUO, and low sensitivity privacy material is the Recycling Center located off Highway 293. This is used for large volume destruction (recommend 20+ boxes). However, this is not a total destruction process. Use of this option is based on the sensitivity of the material to be destroyed, which is normally determined by the Privacy Act Officer. Also, in limited cases, a multi-page continuous-feed computer printout listing names and SSN, with no other personal information, may be recycled in bulk without destruction. *Use of either of these methods must be coordinated with the Privacy Act Officer for approval.*

(5) Self-Service Shredding.

(a) Once white paper is shredded it will be recycled. The shredding facility should place the shredded material in the proper recyclables bin or call the Recycling Center for pick up.

(b) White paper should be shredded separately from colored paper if possible. Residential paper recycling need not be separated.

(c) DOIM provides self-service shredding machines at two locations to assist West Point personnel in shredding documents. Personnel are on hand to instruct in the use of the machines. The locations are: **Mail & Distribution (M&D) center**, Bldg 646 (between print plant and Post Office).

Contact West Point Official Mail Manager to schedule use and the **Publications Warehouse**, Bldg. 667A, 2nd floor, contact the West Point records Manager to schedule use.

Table 1 Transfer Station and Recycling Center Annual Progress

	2004 Tons	2003 Tons	2002 Tons	2001 Tons	2000 Tons	1999 Tons	1998 Tons	1997 Tons	1996 Tons	1995 Tons	1994 Tons
Mixed Municipal Solid Waste	6289	6494	6321	6,092	6,272	5,684	5,901	6,460	4,331	4,330	4,573
Sludge		406		367	643						
Landfill Total	6,289	6,900	6,321	6,459	6,272	5,684	5,901	6,460	4,331	4,330	4,573
Bulk Furniture				132	162	130	156	97	21		66
Aggregate & Concrete										140	144
Wood & Wood Chips		30									
Glass / Plastic	137	119	108	109	113	111	90	65	42	188	156
Paper - White		17	30	123	107	86	61	43	96		
Paper - Colored	424	393	181	35	31	30	27	26			
Newsprint	208	215	290	266	144	86					
Farm Waste	255	410	372	385	333	285					
Bulk Metal	246	354	230	224	351	353	489	40	21	26	28
Tires	31	35	30	32	28	39	54		93	43	44
Corrugated Containers	637	746	699	876	503	461	253		216		
Construction & Demolition	487	725	526	392	381	413	365				
Sludge		412	800	94							
Organic Waste	1007	822	889	862							
Recyclable Total	3,456	4,279	4,154	3,529	2,154	1,995	1,494	271	489	397	438
Total MSW	9,745	11,178	10,475	9,988	8,425	7,679	7,395	6,731	4,820	4,727	5,012
Recyclable: Percentage of total Solid Waste	35.5%	38.28%	39.66%	35.33%	25.56%	25.97%	20.21%	4.02%	10.15%	8.40%	8.75%

CHAPTER 4

4-1 Composting

a. At present no composting is done at West Point . All organic waste (tree limbs, trunks, and leaves) is stored in a designated area adjacent to the transfer station. The Transfer Station operators' contract requires the disposal of the organic waste through a composter or organic waste recycler.

b. EMD is investigating an in-vessel composter to mix the organic, farm waste and other feasible waste to produce compost to use on West Point. The business plan was completed and we are investigating funding options.

CHAPTER 5 Solid Waste and Recyclables Storage and Collection

5-1 The collection, storage and disposal of all solid waste are handled through contracts. The contracts are kept on file at DPW's Solid Waste Management Branch office. Additional requirements are included in the waste contracts.

a. Residential

(1) Solid Waste - Each Housing unit is issued a 65-gallon container for solid waste. The containers are emptied once a week. The three apartment complexes, which have approximately 50 apartments, each have an eight cubic yard container that is picked up once a week. The Morgan Farm Caretaker's residence located off post is given a three cubic yard container that is collected weekly.

(2) Recyclables - Each residence is issued recycle containers for recycle material. The containers are emptied weekly. Each office area is issued blue containers for white paper and other containers are located at a centralized recycle drop off point. These central locations consist of 50 gallon containers for office mix, newspaper, commingle, and white paper. Also several cardboard compactors were purchased for high cardboard areas like DPW, commissary and cadet mess. (See Appendix 2)

5-2 Solid Waste Management Facilities

a. The Transfer Station, which is located off Route 293 approximately 2 miles west of Washington Gate consists of an Operator Building, which contains the computerize weight control system and operator office. Outside are two weighting tables, the MSW drop off chute, and compactor. Roll Off containers are staged for collection of recyclables (i.e. construction and demolition debris, commingle (plastic, glass and metal containers) and scrap metal). The Transfer Station operates under a New York State Permit which is renewed every 5 years. **The permit will expire on the 29 January 2006.** The existing and projected storage capacity for MSW is 20,000 pounds. The only environmental controls are a liquid run off trench around the MSW compactor. The liquid flows to a collection tank which is emptied and transferred to the Target Hill Waste Water Treatment by Roads and Grounds on a routine basis. The Transfer Station handles 60 % of the waste stream. The Transfer Station operates from Monday through Friday, 0700 – 1530 hours; and Saturday, 0800 – 1300 hours.

b. The recyclables (the other approximately 40% of the waste stream) are handled by the Recycling Center. The Recycling Center, which is also located off Route 293 adjacent to the Transfer Station, consists of a 6,000 square foot building that encloses the following equipment for the processing of recyclables: three balers, a paper shredder, a metal precrusher, and a range residue deformer. Numerous cargo containers are used for storage outside of the building. Materials are stored to take advantage of market fluctuations. Commingled, metal, and construction and demolition debris (C&D) roll offs are located next to the Transfer Station area. In New York State, no permit is necessary to operate the

recycling center. The Recycling Center processes approximately 120 tons of materials per month with a storage capacity of 6,400 square feet equal to about 520 tons of material. The center recycles cardboard, white and colored paper, magazines, books and newsprint, which are revenue generating commodities. Commingled, metal, and C&D, which are non-revenue generators, are recycled at a cost. The Diversion (recycling) Rate as of CY 2004 is 35.5%. The facility operates from Monday through Friday 0700 – 1530 hours and Saturday 0800 – 1200 hours.

5-3 Program Promotion and Training

a. West Point promotes the Transfer Station and Recycling Center with newspaper (Pointer View) articles, local channel announcements and tours. The Recycling Center Manager has a Web page on West Point's website for notifying the community of recycling updates. The center sponsors Cub Scout troop and West Point Environmental Science Cadet site tours. A SWMB representative, when requested, attends installation mayors meeting and has a booth at the newcomer fair. At the New Employee Orientation training, employees are introduced to West Point's Environmental Management Division and the sites recycling program. West Point has sponsored professional organization meetings on post.

b. Training

- (1) The contractors have their employees trained according to NYSDEC's regulations.
- (2) The Site managers are trained according to Army Regulations.

5-4 Recordkeeping and Reporting. The following are the reporting requirements:

a. Solid Waste Annual Reporting system (SWAR). EEB inputs information on the municipal solid waste and recyclables data quarterly to the SWAR database. The information is ultimately reported to Congress by EPA to comply with RCRA.

b. New York State Department of Environmental Conservation Solid Waste Report. EEB annually completes the NYSDEC Transfer Station Annual Report to comply with 6NYCRR Part 360.

5-5 C & D Resource Recovery Reporting. EEB records C&D that is either recycled or land filled for the annual SWAR report.

5-6 Affirmative Procurement Reporting. EEB along with the Directorate of Contracting representative coordinates the documentation for exceptions to the Affirmative Procurement Program.

5-7 Factors Affecting Solid Waste Management Decision-Making

a. West Point, through its contractor, currently transports its MSW to a landfill in Pennsylvania. There is always a possibility of state or local regulation restricting the transport of MSW out of state. West Point is investigating the installation of an in-vessel composter to reduce its MSW to the landfill. Composting will reduce the volume of MSW thus saving landfill space and disposal costs. An In-vessel composter is a long term investment. West Point will include the status of regional landfills and transporter cost, when evaluating the feasibility of purchasing an in-vessel composter.

b. West Point continuously reviews the market prices of recyclables. West Point has installed cargo containers to enable storage of recyclables until peak market values can be obtained.

5-8 Contingency Planning

a. West Point has its own Fire Department and Security. The Fire Department responds to all calls to 911 on West Point. When emergency calls are made, Security responds also. Keller Army Community Hospital (KACH) is on alert for all installation emergencies. The Directorate of Public Works – Environmental Management Division – Solid Waste Management Branch and Environmental Engineering Branch also respond to emergencies that pertain to hazardous materials.

b. A contractor operates the Transfer Station. If the Transfer Station is closed for emergency, the contact stipulates that all solid waste will be diverted to another contractor operated Transfer Station.

c. West Point through the Directorate of Contracting has an emergency response contact with a local company.

d. List of Emergency Coordinators with primary coordinator listed first and alternatives in order of responsibility:

<u>Name</u>	<u>Office Phone</u>	<u>Cell Phone</u>
Frank Piccone	845-938-4074	646-208-9377
Steve Morgan	845-938-4522	646-879-5324
John Dopler	845-938-4281	646-772-3208
Kevin Kirkpatrick	845-938-5175	646-772-3675

e. Table 2 is a list of the fire and spill control equipment on hand. The list also includes the location of this equipment:

Table 2. Fire and Spill Control Equipment

Fire Control	Dry Chemical Extinguisher	3	Transfer Station Area
	Dry Chemical Extinguisher	1	Recycling Center
Spill Control			
	Absorbent pads	5 boxes	Recycling Center/ Transfer Station Areas
	Dry sweep	100 lbs	Recycling Center/ Transfer Station Areas
	Drain covers	5 units	Recycling Center/ Transfer Station Areas
	Booms	1 – 20ft long units	Transfer Station Area
		2 – 20ft long units	Recycling Center

f.. Internal and external communication: All the office areas contain telephones. The Transfer Station and Recycling Center Managers carry cell phones

g. See Figure 1 for evacuation routes - solid line is the primary route and broken lines are alternative routes.

h. The Installation Spill Contingency Plan is to be followed for all spills.

i. For periods of non-operation or delays in transporting solid waste due to undesirable conditions, such as delivery of unauthorized waste, fires, dust odor, vectors, unusual traffic conditions, equipment breakdown or other emergencies:

(1) The Goshen Transfer Station will be notified of West Point's non-operation and we will request approval to transport material to Goshen Transfer Station. Each vehicle will be weighed at Goshen site, receive a tipping ticket, then dump material as per Goshen Transfer Station procedure. The driver will return and turn-in the tipping ticket to West Point Transfer Station's Operator.

(2) West Point's Transfer Station Site Manager will annually request approval for use of Goshen Transfer Station and renew any agreements that are necessary through the Directorate of Contracting .

5-9 Solid Waste Management Action Items

a. Plan for expanding existing recycling programs and developing new ones.

b. Investigation of In-Vessel Composting has completed the business plan stage. DPW is investigating alternative funding or sponsorship.

c. Periodically present Transfer Station and Recycling Center's progress in reducing MSW to the EQCC.

5-10 Periodic Re-evaluations

a. Review for regulatory changes at federal, state and local levels.

b. Evaluate market conditions that impact recycling programs.

c. Periodic compliance inspection are made by EMD

d. Contract renewals are every three years. The contracts are amend as changes in regulation are passed and bidders are evaluated.

5-11 Control Program for Unauthorized Waste

a. The West Point's Transfer Station is authorized to accept the following solid waste:

(1) Residential Waste: Paper, metal, plastics, food waste, bulky items and yard waste. Newspapers, metal cans, glass and plastic containers are recycled.

(2) Commercial Waste: Paper, food waste, clothing and textiles, and packing materials. Cardboard, white office paper, metal cans, glass and plastic containers are recycled.

(3) Industrial Waste: Wood and food wastes. Tires and scrap metal are recycled.

(4) Construction and Demolition Waste: Lumber, glass, concrete, bricks, plaster, rock etc. wastes are sent to off-site C & D recycler.

(5) Range Waste: Food waste, packaging from the soldiers' MREs (meals ready to eat), and paper. Returned metals are recycled.

b. The Transfer Station is not authorized to accept hazardous waste; liquid waste; sewage sludge or septage; chemical or explosive wastes; industrial wastes (solid waste generated by manufacturing or industrial processes) as defined in 6NYCRR Part 360 or Part 371; infectious or medical wastes as defined in 6NYCRR Part 364; or asbestos.

c. The Transfer Station will post, at all maintained access points, signs indicating hours of operation and types of solid waste accepted and not accepted. The Transfer Station will maintain the signs in good working order.

d. The Solid Waste Manager must develop and implement a program to teach the facility's staff to recognize, remove and report receipt of solid waste not authorized by the permit to be treated, disposed of or transferred at the facility.

e. The Transfer Station will handle non-authorized waste in the following manner:

- (1) Remove it from the waste stream
- (2) Segregate it by storing it in a separate drum
- (3) Record the following information: the date the non-authorized waste was received, the type of waste, the date of disposal, the disposal method and location, and any follow up with the appropriate organizations.
- (4) Contact the SWMB and EEB to request removal of the waste. The SWMB will inform the transfer station of the disposal method and location.
- (5) Provide to the NYSDEC a record identifying the non-authorized waste and its final disposition in the New York State Department of Environmental Conservation Solid Waste Report.
- (6) Records of each incident must be available at the Transfer Station for NYSDEC's review.
- (7) Recordkeeping: The facility owner or operator must retain records of all unauthorized solid waste accepted identifying the waste and its final disposition. The Transfer Station manager will summarize all records in the annual report.

5-12 Transfer Station Closure Plan

- a. EMD will perform the following actions:
- (1) Transfer all waste on site to permitted landfill.
 - (2) Clean all operating equipment.
 - (3) Dismantle all operating equipment not useable at West Point for some other purpose or relocate to other organization.
 - (4) Place all useable equipment in storage.
 - (5) Dispose of dismantled equipment through Defense Reutilization and Marketing Service (DRMS).
 - (6) All asphalt or concrete pads should be power washed and water collected.
 - (7) Develop soil-sampling plan.
 - (8) Sample around equipment and pad areas.
 - (9) Review analytical data.
 - (10) Develop further actions, if required, based on review of analytical data.
 - (11) Submit closure measures to New York State Department of Environmental Conservation for approval.

5-13 Leachate Containment Tank Closure Plan

- a. EMD will perform the following actions:
- (1) Empty concrete tank.
 - (2) Seal off all connections to tank.

- (3) Power wash inside of tank, collect power wash water and dispose of properly.
- (4) Develop soil-sampling plan.
- (5) Sample around tank.
- (6) Sample operating wells.
- (7) Review analytical data.
- (8) If no contamination exists, either break concrete up and dispose at proper landfill or leave tank in place and fill with solid inert material, such as clean sand or concrete slurry.
- (9) Re-grade to the surrounding topography.
- (10) If contamination exists, develop a remediation plan.

5-14 Construction and Demolition Waste Management Plan Guidance: NOTE: This Construction and Demolition (C&D) Waste Management Plan Guidance applies to all C&D waste generators both West Point and contractor generators. This Plan is from the Army Corp of Engineers Specifications. The Plan will be used in all construction and/or renovation projects.

a. Government Policy is to apply sound environmental principles in the design, construction and use of facilities. As part of the implementation of that policy the Contractor shall: (1) practice efficient waste management when sizing, cutting, and installing products and materials and (2) use all reasonable means to divert construction and demolition waste from landfills and incinerators and to facilitate their recycling or reuse.

b. Management - The Contractor shall take a pro-active, responsible role in the management of construction and demolition waste and require all subcontractors, vendors and suppliers to participate in the effort. Construction and demolition waste includes products of demolition or removal, excess or unusable construction materials, packaging material for construction products, and other materials generated during the construction process but not incorporated into the work. In the management of waste, consideration shall be given to the availability of viable markets, the condition of the material, the ability to provide the material in suitable condition and in a quantity acceptable to available markets, and time constraints imposed by internal project completion mandates. The contractor shall be responsible for implementation of any special programs involving rebates or similar incentives related to recycling of waste. Revenues or other savings obtained for salvage, or recycling shall accrue to the Contractor. Firms and facilities used for recycling, reuse, and disposal shall be appropriately permitted for the intended use to the extent required by federal, state, and local regulations.

c. Plan . A waste management plan shall be submitted within 15 days after contract award and before initiating any site preparation work. The plan shall include the following:

- (1) Name of individuals on the Contractor's staff responsible for waste prevention and management.
- (2) Actions that will be taken to reduce solid waste generation.
- (3) Description of the specific approaches to be used in recycling/reuse of the various materials generated, including the areas and equipment to be used for processing, sorting, and temporary storage of the waste.
- (4) Characterization, including estimated types and quantities, of the waste to be generated.
- (5) Name of landfill and/or incinerator to be used and the estimated costs for use, assuming that there would be no salvage or recycling on the project.
- (6) Identification of local and regional reuse programs, including non-profit organizations such as schools, local housing agencies and organizations that accept used materials such as materials exchange networks and Habitat for Humanity.
- (7) List of specific waste materials that will be salvaged for resale, salvaged and reused or recycled. Recycling facilities that will be used shall be identified.
- (8) Identification of materials that cannot be recycled/reused with an explanation or justification.

(9) Anticipated net cost savings determined by subtracting Contractor program management costs and the cost of disposal from the revenue generated by sale of the materials and the incineration and /or landfill cost avoidance.

d. Records shall be maintained to document the quantity of waste generated; the quantity of waste diverted through sale, reuse, or recycling; and the quantity of waste disposed by landfill or incineration. The records shall be made available to the Contracting Officer and Environmental Engineering Branch during construction, and a copy of the records shall be delivered to the Contracting Officer and Environmental Engineering Branch upon completion of the construction.

e. Collection

(1) The necessary containers, bins, and storage areas to facilitate effective waste management shall be provided and shall be clearly and appropriately identified. Recyclable materials shall be handled to prevent contamination of materials from incompatible products and materials and separated by one of the following methods:

(2) Source Separated Method - Waste products and materials that are recyclable shall be separated from trash, sorted into appropriately marked separate containers, and then transported to the respective recycling facility for further processing.

(3) Co-Mingled Method - Waste products and recyclable materials shall be placed into a single container and then transported to a recycling facility where the recyclable materials are sorted and processed.

(4) Other Methods proposed by the Contractor may be used when approved by the Contracting Officer and Environmental Engineering Branch.

f. Disposal - Except as otherwise specified in other section of the specifications, disposal shall be in accordance with the following:

(1) Reuse - First consideration shall be given to salvage for reuse since little or no reprocessing is necessary for this method, and less pollution is created when items are reused in their original form. Sale or donation of waste suitable for reuse shall be considered. Salvaged materials, other than those specified in other sections to be salvaged and reinstalled, shall not be used in this project.

(2) Recycle - Waste materials not suitable for reuse, but having value, as being recyclable, shall be made available for recycling whenever economically feasible.

(3) Waste - Materials with no practical use or economic benefit shall be disposed at a landfill or incinerator.

Appendix A
EPA-Designated Guideline Items for Affirmative Procurement

EPA's List of Designated Products

Construction Products

Designated:

- Building insulation products
- Carpet
- Cement and concrete
- Carpet cushion
- Latex paint
- Floor tiles
- Flowable fill
- Laminated paperboard
- Modular threshold ramps
- Nonpressure pipe
- Patio blocks
- Railroad grade crossings/surfaces
- Roofing materials
- Shower and restroom dividers/partitions
- Structural fiberboard

Proposed:

- Nylon carpet and nylon carpet backing

Landscaping Products

Designated:

- Compost made from yard trimmings or food waste
- Garden and soaker hoses
- Hydraulic mulch
- Lawn and garden edging
- Plastic lumber landscaping timbers and posts

Proposed:

- Compost made from manure or biosolids
- Fertilizers made from recovered organic materials

Non-Paper Office Products

Designated:

- Binders, clipboards, file folders, clip portfolios, and presentation folders
- Office furniture
- Office recycling containers
- Office waste receptacles
- Plastic desktop accessories
- Plastic envelopes
- Plastic trash bags
- Printer ribbons
- Toner cartridges

Paper and Paper Products

Designated:

- Commercial/Industrial sanitary tissue
- Miscellaneous papers
- Newsprint
- Paperboard and packaging
- Printing and writing papers

Park and Recreation Products

Designated:

- Park benches and picnic tables
- Plastic fencing
- Playground equipment
- Playground surfaces
- Running tracks

Transportation Products

Designated:

- Channelizers
- Delineators
- Flexible delineators
- Parking stops
- Traffic barricades
- Traffic cones

Vehicular Products**Designated:**

Engine coolants
Rebuilt vehicular parts
Re-refined lubricating oils
Retread tires

Miscellaneous**Designated:**

Manual-grade strapping

Miscellaneous**Designated:**

Awards and plaques
Bike racks
Blasting grit
Industrial drums
Mats
Pallets
Signage
Sorbents

Appendix B
REFUSE AND RECYCLING COMPACTORS
 (UPDATED 12/13/01)

<u>FACILITY</u>	<u>TYPE UNIT</u>	<u>REMARKS</u>
<u>MSW COLLECTION</u>		
601 THAYER HALL	1-4 YARD VERTIPAC	INSTALLED and OPERATING
602 GRANT REST.	1-30 YARD HORIZONTAL	INSTALLED and OPERATING
602 GRANT BARRACKS	1-8 YARD VERTIPAC	INSTALLED and OPERATING
603 WEST POINT CLUB	1-6 YARD VERTIPAC	INSTALLED and OPERATING
655 IKE HALL	1-8 YARD VERTIPAC	INSTALLED and OPERATING
700 MICHIE STADIUM	1-42 YARD HORIZONTAL	INSTALLED and OPERATING
714 HOLLEDER CENTER	1-8 YARD VERTIPAC	INSTALLED and OPERATING
735 SCOTT BARRACKS	1-8 YARD VERTIPAC	INSTALLED and OPERATING
738 SHERMAN BARRACKS	1-8 YARD VERTIPAC	INSTALLED and OPERATING
740 LEE BARRACKS	1-8 YARD VERTIPAC	INSTALLED and OPERATING
745 CADET MESS	1-30 YARD HORIZONTAL	INSTALLED and OPERATING
745-C IKE BARRACKS	1-30 YARD HORIZONTAL	INSTALLED and OPERATING
745-D MAC BARRACKS	1-34 YARD HORIZONTAL	INSTALLED and OPERATING
752 MAHAN HALL	1-4 YARD VERTIPAC	INSTALLED and OPERATING
756 BRADLEY BARRACKS	1-30 YARD HORIZONTAL	INSTALLED and OPERATING
757 CADET LIBRARY	1-4 YARD VERTIPAC	INSTALLED and OPERATING
900 KELLER HOSPITAL	1-8 YARD VERTIPAC	INSTALLED and OPERATING
1200 COMMISSARY	1-8 YARD VERTIPAC	INSTALLED and OPERATING
1204 POST EXCHANGE	3-4 YARD VERTIPAC	INSTALLED and OPERATING
1207 CHILD DEV CTR	1-4 YARD VERTIPAC	INSTALLED and OPERATING
1585 CB MESS FACILITY	1-42YARD HORIZONTAL	INSTALLED and OPERATING
<u>CARDBOARD RECYCLING</u>		
606 CADET STORE	1-8 YARD VERTIPAC	INSTALLED and OPERATING
667 DPW	1-42 YARD HORIZONTAL	INSTALLED and OPERATING
745 CADET MESS	1- HORIZONTAL BALER	INSTALLED and OPERATING
900 KELLER HOSPITAL	1-8 YARD VERTIPAC	INSTALLED and OPERATING
1200 COMMISSARY	1-VERTICAL BALER	INSTALLED and OPERATING
1202 SHOPPETTE	1-VERTICAL BALER	INSTALLED and OPERATING
1204 POST EXCHANGE	1-HORIZONTAL BALER	INSTALLED and OPERATING
<u>PROPOSED...NOT ORDERED</u>		
1202 SHOPPETTE	1-4 YARD MSW VERTIPAC	PROPOSED...NOT ORDERED
<u>RECYCLED CENTER</u>		
RECYCLE CENTER	2-VERTICAL BALER	INSTALLED and OPERATING
RECYCLE CENTER	1-HORIZONTAL BALER	INSTALLED and OPERATING
RECYCLE CENTER	1- PRECRUSHER (METALS)	INSTALLED and OPERATING
RECYCLE CENTER	1- PAPER SHREDDER	INSTALLED and OPERATING

Figure 1: Transfer Station and Recycling Center's Evacuation Routes

